

**IN THE SPECIFICATION:**

Please amend paragraph 27 as follows:

[27] The optimal weight vector may be calculated by the following equation (1) at the weight vector calculation part 203.

$$\underline{w} = \left[ \sum_{k=1}^K \sigma_k \underline{a}(\theta_k) \underline{a}(\theta_k)^H \right]^{-1} E \left[ \sum_{i=1}^L \underline{a}(\theta_i) \right] \dots \dots \dots (1)$$

$$\underline{w} = \left[ \sum_{k=1}^K \sigma_k \underline{a}(\theta_k) \underline{a}(\theta_k)^H \right]^{-1} E \left[ \sum_{i=1}^L \underline{a}(\theta_i) \right] \dots \dots \dots (1)$$